Title: PREVENTION AND TREATMENT OF CARDIOVASCULAR PATHOLOGIES WITH TAMOXIFEN

ANALOGUES

In the Claims

158-172. (Canceled)

173. (Previously Presented) A therapeutic method for preventing or treating a cardiovascular or vascular indication characterized by a decreased lumen diameter comprising administering to a mammal at risk of or afflicted with said cardiovascular or vascular indication, a cytostatic dose of a therapeutic agent, wherein the therapeutic agent is a compound of formula (I):

$$(R^1)(R^2)N(CH_2)_2O$$
 (Z)
 R^3
 (I)

wherein Z is C=O or a covalent bond; Y is H or $O(C_1-C_4)$ alkyl, R^1 and R^2 are individually (C_1-C_4) alkyl or together with N are a saturated heterocyclic group, R^3 is ethyl or chloroethyl, R^4 is H, R^5 is I, $O(C_1-C_4)$ alkyl or H and R^6 is I, $O(C_1-C_4)$ alkyl or H with the proviso that when R^4 , R^5 , and R^6 are H, R^3 is not ethyl; or a pharmaceutically acceptable salt thereof.

174. (Previously Presented) The method of claim 173 wherein the cytostatic dose is effective to increase the level of TGF-beta so as to decrease lesion formation or development,

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inhibit lipid accumulation, increase plaque stability, maintain or increase vessel lumen diameter, or any combination thereof.

- 175. (Previously Presented) The method of claim 173 wherein the compound of formula (I) is idoxifene, 4-iodotamoxifen, 3-iodotamoxifen, toremifene, or a pharmaceutically acceptable salt thereof.
- 176. (Previously Presented) The method of claim 173 wherein the compound of formula (I) is idoxifene or a pharmaceutically acceptable salt thereof.
- 177. (Previously Presented) The method of claim 173 wherein the compound of formula (I) is toremifene or a pharmaceutically acceptable salt thereof.
- 178. (Previously Presented) The method of claim 173 wherein the administration is systemic.
- 179. (Previously Presented) The method of claim 173 wherein the compound of formula (I) is administered via a sustained release dosage form.
- 180. (Previously Presented) The method of claim 173 wherein the administration is localized at the site of the vascular trauma.
- 181. (Previously Presented) The method of claim 173 wherein the compound directly or indirectly increases the level of active TGF-beta.
- 182. (Previously Presented) A therapeutic method of increasing the level of TGF-beta in a mammal in need thereof, comprising administering an effective amount of a compound of

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formula (I):

$$(R^1)(R^2)N(CH_2)_2O$$
 (Z)
 R^3
 (I)

wherein Z is C=O or a covalent bond; Y is H or $O(C_1-C_4)$ alkyl, R^1 and R^2 are individually (C_1-C_4) alkyl or together with N are a saturated heterocyclic group, R^3 is ethyl or chloroethyl, R^4 is H or together with R^3 is $-CH_2-CH_2$ - or -S-, R^5 is I, OH, $O(C_1-C_4)$ alkyl or H and R^6 is I, $O(C_1-C_4)$ alkyl or H with the proviso that when R^4 , R^5 , and R^6 are H, R^3 is not ethyl; or a pharmaceutically acceptable salt thereof.

- 183. (Previously Presented) The method of claim 182 wherein the increase in TGF-beta reduces or inhibits diabetic retinopathy.
- 184. (Previously Presented) The method of claim 182 wherein the mammal is diabetic.
- 185. (Previously Presented) The method of claim 184 wherein the diabetic has retinopathy.
- 186. (Previously Presented) The method of claim 182 wherein the compound indirectly or directly increases the level of active TGF-beta in vascular tissue.

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- 187. (Previously Presented) The method of claim 182 wherein the compound is a TGF-beta production stimulator.
- 188. (Previously Presented) The method of claim 182 wherein the compound is a TGF-beta activator.
- 189. (Previously Presented) The method of claim 182 wherein the compound increases the production of TGF-beta mRNA.
- 190. (Previously Presented) The method of claim 182 wherein the compound increases the cleavage of the latent form of TGF-beta.
- 191. (Previously Presented) The method of claim 182 wherein the compound increases the bioavailability of TGF-beta.
- 192. (Previously Presented) The method of claim 182 wherein the compound is idoxifene or a pharmaceutically acceptable salt thereof.
- 193. (Previously Presented) The method of claim 182 wherein the compound is toremifene or a pharmaceutically acceptable salt thereof.
- 194. (Previously Presented) The method of claim 182 wherein the compound is droloxifene or a pharmaceutically acceptable salt thereof.
- 195. (Canceled)

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196. (Previously Presented) The method of claim 173 or 182 wherein the compound forms cellular DNA adducts at level which is reduced relative to DNA adduct formation by tamoxifen.

- 197. (Previously Presented) The method of claim 173 or 182 wherein the compound has estrogenic activity which is reduced relative to the estrogenic activity of tamoxifen.
- 198. (Previously Presented) The method of claim 173 or 182 wherein the compound does not form cellular DNA adducts.
- 199. (Previously Presented) The method of claim 173 or 182 wherein the compound has no estrogenic activity.
- 200. (Previously Presented) A method of increasing the level of TGF-beta in a mammal in need thereof, comprising administering an effective amount of an agent that directly or indirectly elevates the level of active TGF-beta in said mammal, wherein the agent has reduced estrogenic activity relative to tamoxifen, reduced DNA adduct formation relative to tamoxifen, or any combination thereof.
- 201. (Previously Presented) The method of claim 200 wherein the agent is a structural analog of tamoxifen or a pharmaceutically acceptable salt thereof.
- 202. (Previously Presented) The method of claim 200 wherein the agent is idoxifene or a pharmaceutically acceptable salt thereof.
- 203. (Previously Presented) The method of claim 200 wherein the agent is toremifene or a

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pharmaceutically acceptable salt thereof.

204. (Canceled)

- 205. (Previously Presented) The method of claim 173, 182, or 200 wherein the administration increases the level of latent TGF-beta relative to the level of latent TGF-beta prior to said administration.
- 206. (Previously Presented) The method of claim 173, 182, or 200 wherein the administration increases the level of active TGF-beta relative to the level of active TGF-beta prior to said administration.
- 207. (Previously Presented) A therapeutic method for preventing or treating a vascular indication characterized by a decreased lumen diameter comprising administering to a mammal at risk of or afflicted with said vascular indication, a cytostatic dose of a therapeutic agent, wherein the therapeutic agent is a compound of formula (I):

$$(R^1)(R^2)N(CH_2)_2O$$

$$(Z)$$

$$R^3$$

$$R^6$$

$$R^4$$

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wherein Z is C=O or a covalent bond; Y is H or $O(C_1-C_4)$ alkyl, R^1 and R^2 are individually (C_1-C_4) alkyl or together with N are a saturated heterocyclic group, R^3 is ethyl or chloroethyl, R^4 is H or together with R^3 is $-CH_2-CH_2$ - or -S-, R^5 is I, OH, $O(C_1-C_4)$ alkyl or H and R^6 is I, $O(C_1-C_4)$ alkyl or H with the proviso that when R^4 , R^5 and R^6 are H, R^3 is not ethyl; or a pharmaceutically acceptable salt thereof.

- 208. (Previously Presented) The method of claim 207 wherein the cytostatic dose is effective to increase the level of TGF-beta so as to decrease lesion formation or development, inhibit lipid accumulation, increase plaque stability, maintain or increase vessel lumen diameter, or any combination thereof.
- 209. (Previously Presented) The method of claim 207 wherein the compound of formula (I) is idoxifene, 4-iodotamoxifen, 3-iodotamoxifen, toremifene, or a pharmaceutically acceptable salt thereof.
- 210. (Previously Presented) The method of claim 207 wherein the administration is systemic.
- 211. (Previously Presented) The method of claim 207 wherein the compound of formula (I) is administered in a sustained release dosage form.

212-230. (Canceled)

231. (Previously Presented) A therapeutic method for treating a condition selected from the group consisting of arteriosclerosis and small vessel disease, comprising administering to a mammal afflicted with said condition, an effective amount of a compound of formula (I):

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$$(R^1)(R^2)N(CH_2)_2O$$
 (Z)
 R^3
 (I)

wherein Z is C=O or a covalent bond; Y is H or $O(C_1-C_4)$ alkyl, R^1 and R^2 are individually (C_1-C_4) alkyl or together with N are a saturated heterocyclic group, R^3 is ethyl or chloroethyl, R^4 is H, R^5 is I, $O(C_1-C_4)$ alkyl or H and R^6 is I, $O(C_1-C_4)$ alkyl or H with the proviso that when R^4 , R^5 , and R^6 are H, R^3 is not ethyl; or a pharmaceutically acceptable salt thereof.

232. (Canceled)